

# SOA ESB Integration Training

*COURSE CONTENT*

## GET IN TOUCH



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## About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

## About Course

SOA ESB Integration Training by Multisoft Systems is designed to equip professionals with the skills needed to develop, manage, and optimize enterprise-level integrations using a Service-Oriented Architecture (SOA) and Enterprise Service Bus (ESB). As modern organizations rely on distributed applications, seamless communication between systems becomes essential.

## Module 1: Introduction to SOA and ESB

- ✓ Overview of Service-Oriented Architecture
- ✓ Key SOA Principles and Design Concepts
- ✓ Introduction to Enterprise Service Bus (ESB)
- ✓ Benefits of SOA & ESB in Enterprise Integration
- ✓ SOA vs Traditional Integration Approaches

## Module 2: ESB Architecture and Components

- ✓ ESB Core Architecture
- ✓ Service Containers and Adapters
- ✓ Message Routing and Transformation
- ✓ Transport Protocols (HTTP, JMS, FTP, etc.)
- ✓ Service Orchestration and Mediation

## Module 3: Messaging and Integration Patterns

- ✓ Message Exchange Patterns
- ✓ Enterprise Integration Patterns (EIP)
- ✓ Synchronous vs Asynchronous Communication
- ✓ Canonical Data Model
- ✓ Error Handling and Exception Management

## Module 4: Web Services & API Integration

- ✓ SOAP & REST Web Services
- ✓ WSDL, XML, JSON Fundamentals
- ✓ API Consumption and Exposure
- ✓ Service Virtualization
- ✓ API Gateways and Security

## **Module 5: ESB Configuration and Development**

- ✓ Creating and Deploying Services
- ✓ Configuring ESB Connectors and Adapters
- ✓ Message Flow Development
- ✓ Data Mapping and Transformations
- ✓ Integrating Legacy, Cloud, and On-Premise Applications

## **Module 6: SOA Governance & Security**

- ✓ Service Lifecycle Management
- ✓ Policy Enforcement and Access Control
- ✓ Authentication & Authorization
- ✓ Service Monitoring & Auditing
- ✓ Compliance and Governance Best Practices

## **Module 7: ESB Performance & Optimization**

- ✓ Performance Tuning Techniques
- ✓ Load Balancing and Scalability
- ✓ Transaction Management
- ✓ Monitoring Tools and Dashboards
- ✓ Troubleshooting Integration Flows

## **Module 8: Real-Time Enterprise Integration Scenarios**

- ✓ End-to-End Integration Project
- ✓ Multi-system Orchestration
- ✓ ESB in Cloud & Hybrid Environments
- ✓ Case Studies and Practical Use Cases
- ✓ Best Practices for Enterprise Integration